one eighth inch = one foot 0 4 8	one quarter inch = one	8	0	hs inch =	one foo	ot		one half 0	inch = c	one foot				e quarte 6" 0	rs inch	= one	foot 2		one in	och = on 6" 0				2	ne and	one half i 6"	nches = 0	one foot		three inc	_	one foot 6"	→			1
FINAL CD-SUBMISSION 95% SUBMISSION 12-21-12 11-30-12 65% SUBMISSION Date		NOTES: 1. REPLACE STEAM TRAP WITH NEW PUMF	SUB	38 SUB-BASEMENT COL. Z27 SUB BASEMENT STAIRWELL #8 I 39 PRV LOW PRESSURE DRIP	37 SUB-BASEMENT COL. Z27	SUB-BASEMENT COL. Z29	34 SUB-BASEMENT COL. H24 AT WA 35 SUB-BASEMENT COL. H18/A	SUB-BASEMENT COL. H24 AT WA	SUB-BASEMENT BY COL. D30	SUB-BASEMENT (DOOR #8) Co	COL. L4	27 SUB-BASEMENT COL. P29 28 SUB-BASEMENT COL. L29	26 BA-109 MECH. ROWALL BY AERCC	DRIP 25 BA-109 MECH. ROOM MEDIUM PR WALL BY AERCO UNITS	24 BA-109 MECH. ROOM AERCO WA DRIP 24 DRIP BA-109 MECH. ROOM AERCO WA	23 BA-109 MECH. ROOM AERCO WA	BA-109 MECH. ROOM AERCO W	BA-109 MECH. ROOM HEAT EXC	BA-109 MECH. ROOM HEAT		17 BA-109 MECH. ROOM HEAT EXCH	15 BA-109 MECH. ROOM AC-51 STE <i>t</i>	14 BA-109 MECH. ROOM ABOVE TRA	13 BA-109 MECH. ROOM AC-51 STE <i>t</i>	12 BA-109 MECH. ROOM AC-51 STE <i>t</i>	11 BA-109 MECH. ROOM UNIT HEATI	9 AC-52 AHU BA-109 MECH. ROOM MAIN STEA 10 BA-109 MECH. ROOM MAIN UNIT	TRAP BA-109 MECH. ROOM SUPPLY DRIP		SUPPLY BA-109 MECH. ROOM DRIP TRAP BA-109 MECH. ROOM AC-52 STE/	4 BA-109 MECH. ROOM AC-53 STE	3 BA-109 MECH. ROOM AC-53 STE/	1 BA-109 MECH. ROOM #H2 2 BA-109 MECH. ROOM DRIP BY #2	STEAM TRAP TAG NO.	S	
FRE		IMP/TRAP. SEE DETAIL 3 ON D	#8 MECH. ROOM 02 -	#8 MECH. ROOM 02 -			WALL	WALL	(NEAR STAIRWELL #9)	'-			ESSURE DRIP AT	PRESSURE DRIP AT	WATER HEATER #1 WATER HEATER #1	WATER HEATER #2	R HE	CHANGER	CHANGER	CHANGER	HANGE	EAM SUPPLY DRIP	RAP #12 (AC-51) MAIN COIL	EAM COIL	EAM COIL	ATER #1	EAM SUPPLY DRIP BY IT HEATER #1 SUPPLY	TEAM COIL	EAM COIL, LEFT	AP FOR AC-53 STEAM EAM COIL, RIGHT	EAM COIL, LEFT TRAP	EAM COIL, RIGHT	#2 UNIT HEATER	ON REFI	LOUIS STOKES VA N	
DRICK, FREDRICK & HELLER ENGINEERS, INC. 672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147 TEL (440) 546-9696 FAX: (440) 546-9699		WG. 1-02 & SPECIFICATION 22		3-SB-2 2 3-SB-2 2	3-SB-2 2		3-SB-4 4			3-SB-4 4	3-SB-4 4	3-SB-4 4	о 5	Б. С.		Ċ1			Ċ	φ. φ		3-B-5 5-5 5-5		3-B-5	3-B-5		3-B-5 5			3-B-5 5	3-B-5	3-B-5	3-B-5 5 5		OKES VA MEDICAL CENTER, O	
		23 13 <u>.</u>	5 3/4" SPIRA	B 2 1/2" SPIRA B 6 3/4" SPIRA	4 1/2" PROF	3 3/4" PROI	F 4 3/4" SPIRA F 4 3/4" SPIRA	3 3/4" SF	3 3/4" SPIR <i>!</i>	_	ω	D 4 3/4" SPIRA D 3 3/4" SPIRA		F 9 3/4" SPIRA		2 3/	3 11/2" SP	"SPIRA	3 2" SPI	F 3 2" SPIRAX	3 2" SPIRA	3/4" SF	12 3/4" SF		F 2 2" SPIRAX	9 3/4" SPII	3/4" SPII 3/4" SPII	10 3/4" SPII	1 c	F 7 3/4" SPIRA	F 2 2" SPIRAX	F 2 2" SPIRAX	F 10 3/4" SPIRA F 5 3/4" SPIRA	1 4 6	CLEVELAND AND PIPING	
BRIAN MIDOWSKI 66625	REMOVE STEAM TRAP AND ALL ABAN REPAIR STEAM/CONDENSATE LEAK IN COLD STEAM TRAPS: REPAIR THE VATHAT WERE FOUND TO BE COLD. FIX ALL IN REPLACE THE EXISTING COPPER PIPIE WORK. SEE THE SPECIFICATIONS FOR THE S	, , , Ĕ	.125	X B1H-125 15 X B1H-125 15	ICIENT OGIES HGGGBB2	EBB52	1X FT-125 0 1X FT-125 0	6 6		2L		X TD-52L 115 X TD-52L 115	-52L 1	25	X FT-30 12	T-30 12	12M		-30 12M	12M 12M 12M 12M 12M	3-30 12M	PIRAX FT-30 12		(FTB-30 12M	FTB-30 12M		RAX FT-30 12 RAX FT-30 12		2000	X FT-30 12 FTB-30 12M	(FTB-30 12M	(FTB-30 12M	12M 12M 12 12	ODEL, MFG. & PIPE P IN	UPGRADES	
TEER *	DONED ALVES, ITEMS F E REQUE COUUM	WIRELE	AIN OK	CO OK	TEAM MAIN CO	TEAM MAIN CO	STEAM MAIN CO # STEAM MAIN CO S DRIP STEAM S	AM MAIN CO	Z Z	AIN OK	DRIP CO		RIP TRAP OK/I	OK/L		웃	<u>ک</u> ک	HEAT OK K	웃		<u> </u>	STEAM MAIN OK STEAM MAIN OK STEAM MAIN	O _X	STEAM COIL OK S	STEAM COIL OK R		TRAP OK			DRIP TRAP OK S: STEAM COIL OK KI	STEAM COIL LK F	STEAM COIL LK F.	DRIP TRAP OK S OR			-
ARCHITECT:	E PIPING TO A POINT WHERE THE CONDENSATE LINE IS LIVE. CAP. H DESCRIPTION IN REMARKS COLUMN. INVESTIGATE AND DETERMINE THE REASON FOR ANY OTHER NON-FUNCTIONING STEAM TRAP INC. AS DESCRIBED IN THE REMARKS COLUMN. INVESTIGATE AND DETERMINE THE REASON FOR ANY OTHER NON-FUNCTIONING STEAM TRAP NEEDING REPAIR. (FOR PURPOSES OF THIS BID ASSUME THE CONTROL VALVES REQUIRE REPAIR OR REPLACEMENT.) PIPE AND REPLACE THE EXISTING DIELECTRIC UNIONS AND NIPPLES WITH EQUIVALENT SIZES. SEE THE REMARKS COLUMN FOR REQUIRED IALS AND FITTINGS. INSULATE ALL NEW & EXISTING BARE PIPE. A ACCORDANCE WITH THE REMARKS COLUMN.	STEAM TRAP MONITORING SENSOR PER SPECIFICATIONS, SECTION 232213.	AP IS OK. D 7/26/12.	STEAM TRAP IS OK. HAS NEW 1/2" SPIRAX B1H-125 INVERTED BUCKET TRAP. WHEN WORN, REPAIR WITH SPIRAX #80004 REPAIR KIT. 4 FT. OF 6", 4FT OF 3" 115 PSIG BARE STEAM PIPE AND 3" 90 ELBOW NEEDS INSULATION. INSPECTED 7/24/12. STEAM TRAP IS COLD OUT OF SERVICE. HAS NEW 3/4" SPIRAX B1H-125 INVERTED BUCKET TRAP. IF REQUIRED, REPAIR WITH SPIRAX #80004 REPAIR KIT. INSPECTED 7/26/12.	D. IF REQUIRED, REPLACE WITH NEW 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG ED 7/24/12.	STEAM TRAP COLD OUT OF SERVICE, DISCONNECTED. IF REQUIRED, REPLACE WITH NEW 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP. INSPECTED 7/24/12.	STEAM TRAP COLD OUT OF SERVICE, DISCONNECTED. IF REQUIRED, REPLACE WITH NEW 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP. INSPECTED 7/24/12. STEAM TRAP COLD OUT OF SERVICE. IF REQUIRED, REPAIR WITH TUNSTALL 1FP-SA-125 FACE PLATE REPAIR KIT. TRAP IS TILTED, STRAIGHTEN. INSPECTED 7/24/12.	" SPIRAX B1H-125 INVERTED BUCKET TRAP. IF REQUIRED, REPAIR WITH S	STEAM TRAP IS COLD PLUGGED. STEAM INLET VALVE FROZEN SHUT. HAS NEW 3/4" SPIRAX B1H-125 INVERTED BUCKET TRAP. IF REQUIRED, REPAIR WITH SPIRAX #80004 REPAIR KIT. HAS 20 FT. OF COPPER CONDENSATE LINE AT TRAP DISCHARGE. INSPECTED 7/24/12. STEAM TRAP IS OK. HAS NEW 3/4" SPIRAX B1H-125 INVERTED BUCKET TRAP. WHEN WORN, REPAIR WITH SPIRAX #80004 REPAIR KIT.	EAM TRAP IS OK. WHEN WORN, REPLACE WITH NEW 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-128 S COPPER CONDENSATE PIPING. INSPECTED 7/24/12.	JT OF SERVICE, DISCONNECTED. INSPECTED 7/24/12.	STEAM TRAP IS OK. WHEN WORN, REPLACE WITH NEW 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP. INSPECTED 7/24/12. STEAM TRAP IS OK. WHEN WORN, REPLACE WITH NEW 3/4" SPIRAX B1H-125 OR 3/4" ARMSTRONG #811-125 INVERTED BUCKET STEAM TRAP. X	-125 INVERTED BUCKET STEAM T \FETY ISSUE, REPAIR. INSPECTED	ELECTRIC UNION AT OUT	STEAM TRAP IS OK. WHEN WORN, REPAIR WITH TUNSTALL 1FP-SA-30 FACE PLATE REPAIR KIT. INLET 3/4" STEAM TRAP UNION LEAKS STEAM, REPAIR. INSPECTED 7/23/12. STEAM TRAP IS OK. WHEN WORN. REPAIR WITH TUNSTALL 1FP-SA-75 FACE PLATE REPAIR KIT. INLET 3/4" STEAM TRAP UNION LEAKS STEAM TRAP IS OK. WHEN WORN. REPAIR WITH TUNSTALL 1FP-SA-75 FACE PLATE REPAIR KIT. INLET 3/4" STEAM TRAP UNION LEAKS	LL 1FP-SA-30	VACUUM BREAKER AT INLET. INSPECT Y-STRAINER. INSPECTED 7/23/12. STEAM TRAP IS OK. WHEN WORN, REPAIR WITH TUNSTALL 4RK-SA-30 FACE PLATE REPAIR KIT. HAS VACUUM BREAKER AT INLET. INSPECTED 7/23/12.	STEAM TRAP INSTALLED IN PARALLEL WITH TRAP #19. STEAM TRAP OK. WHEN WORN REPAIR STEAM TRAP WITH 2" SPIRAX FTB-30 REPAIR KIT. HAS STEAM SERVICE VACUUM BREAKER IN SHELL. INSPECTED 7/23/12 STEAM TRAP IS COLD OUT OF SERVICE. IF REQUIRED, REPAIR WITH TUNSTALL 4RK-SA-30 FACE PLATE REPAIR KIT. HAS STEAM SERVICE	SHELL. NEW TAG. INSPECTED (1/23/12. STEAM TRAP INSTALLED IN PARALLEL WITH TRAP #20. STEAM TRAP OK. WHEN WORN REPAIR STEAM TRAP WITH 2" SPIRAX FTB-30 REPAIR KIT. HAS STEAM SERVICE VACUUM BREAKER IN SHELL. INSPECTED 7/23/12	STEAM TRAP INSTALLED IN PARALLEL WITH TRAP #17. STEAM TRAP OK. WHEN WORN REPAIR WITH 2" SPIRAX FTB-30 F&T STEAM TRAP REPAIR KIT. INSPECTED 7/23/12 STEAM TRAP OK. WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL #3FP-SA-30 FACE PLATE REPAIR KIT. HAS VACUUM BREAKER IN X	STIVE STEAM TRAP WITH 2" SPIRAX	STEAM TRAP OK. WHEN WORN, REPAIR STEAM TRAP WITH TUNSTALL 1FP-SA-30 FACE PLATE REPAIR KIT. INSPECTED 7/23/12. STEAM TRAP OK. WHEN WORN. REPAIR STEAM TRAP WITH TUNSTALL 1FP-SA-30 FACE PLATE REPAIR KIT. INSPECTED 7/23/12.	RKIT. INSPECTE	STEAM TRAP INSTALLED IN PARALLEL WITH TRAP #12. STEAM TRAP OK. WHEN WORN REPAIR WITH 2" SPIRAX FTB-30 F&T STEAM TRAP REPAIR KIT. INSPECTED 7/23/12.	2" SPIRAX FTB-30 F&T STEAM TR	HEN WORN, REPAIR WITH TUNSTALL 1FP-SA-15 FACE PLATE REPAIR KIT OR REPLACE WITH NEW 3/4" SPIRAX FT-15 T3-15 F&T TRAP. UNIT HEATER FAN DOES NOT TURN ON. NO VACUUM BREAKER INSTALLED, SHOULD HAVE NM SERVICE VACUUM BREAKER INSTALLED BETWEEN COIL OUTLET AND STEAM TRAP INLET. INSPECTED 7/23/12	STEAM TRAP IS OK. WHEN WORN, REPAIR WITH TUNSTALL 1FP-SA-30 FACE PLATE REPAIR KIT. INSPECTED 7/23/12. X STEAM TRAP IS OK. WHEN WORN, REPAIR WITH TUNSTALL 1FP-SA-30 FACE PLATE REPAIR KIT. INSPECTED 7/23/12. X	ET. INSPECTED 7/23/12. RAP IS OK. WHEN WORN, REPAIR WITH TUNSTALL 1FP-SA-30 FACE PLATE REPAIR KIT. INSPECTED 7/23/12.	ED 7/23/12. ED 1/23/12. ED 1/23/12. ED 1/23/12.	- I (A	STEAM TRAP INSTALLED IN PARALLEL WITH TRAP #3. STEAM TRAP HAS SLIGHT LEAKAGE. REPAIR DEFECTIVE STEAM TRAP WITH 2" SPIRAX FTB-30 F&T TRAP REPAIR KIT. HAS NO VACUUM BREAKER. INSTALL TUNSTALL VB-3/4 STEAM SERVICE VACUUM BREAKER BETWEEN COIL OUTLET AND STEAM TRAP INLET. INSPECTED 7/23/12.	ED IN PARALLEL WITH TRAP #4. STEAM TRAP HAS SLIGHT LEAKAGE. REPAIR DEFECTIVE STEAM TAIR KIT. HAS NO VACUUM BREAKER. INSTALL TUNSTALL VB-3/4 STEAM SERVICE VACUUM BREAK RAP INLET. INSPECTED 7/23/12.	INSPECTED 7/23/12. STEAM TRAP IS OK. WHEN WORN, REPAIR WITH TUNSTALL 1FP-SA-30 FACE PLATE REPAIR KIT OR REPLACE WITH NEW 3/4" SPIRAX FT-30 OR 3/4" TUNSTALL TA-FT3-30 F&T TRAP. INSPECTED 7/23/12.	NEW STEAM TRAD OK BLIT SHOWS SOME WEAR WHEN WORN BEDAID STEAM TRAD WITH THINSTALL 15D SA 30 FACE DLATE BEDAID REQUIRED		
STEAM TRAP AND WORK TRAPS 1-40 Approved: Project Director	© DISCONNECT AND REMOVE EXISTING CONDENSATINSULATE ALL BARE STEAM & CONDENSATE PIPING W TURNISH AND INSTALL REMOVABLE INSULATION AS DES MISCELLANEOUS Drawing Title	FURNISH AND INSTALL NEW Y-STRAINERS BETWE REPIPE ELEVATED CONDENSATE PIPING AT LOCA	×		×	×	× ×	×		×	×		×	×	×		*	<			×			NOTE 1	NOTE 1					NOTE 1	NOTE 1	NOTE 1		TRAP MONITOR REPAIR REPING REPAIR	ω	
SCHEDULE	ITE LINES DISCHARGED INTO DI ITHIN AIR HANDLING UNIT. JACKETS AT LOCATIONS TAGGE CRIBED IN SCHEDULE ON DRAW	EEN SHUT-OFF VALVE AND INLE		×	×	×	× ×	×	REPLACE X		×		×	× >	× ×		×	<																M/ COLD REPLACE E STEAM COPPER PIPE TRAP & UNIONS		
STEAM TRAP MONITORING, INSULATION AND PIPING UPGRADES Location VAMC - WADE PARK Date 12-21-12 Checked JMF JMF	DRAIN. FURNISH AND INSTALL NEW CONDENSATE LIFT PUMPS AND AND NOTED ON THE SCHEDULE ON DRAWINGS { 2-13 2-14 }. WINGS { 2-13 2-14 }. Project Title	ET TO STEAM TRAP. ON DRAWINGS { 3-PH-4 4-02 4-03 4-04 4-05 }																							×	×			< ;	×	×	×		SERVICE VACUUM STRAINER BREAKERS REPIPE ELEVATED RELOG	7 8 9	- (
541-12-115 Building Number 1 Drawing Number 2-01	Num		×	×										×			××	< ×	×	×	×		×	×	×			>	< ;	× ×		×		RELOCATE TRAPS INSULATION TO OUTSIDE AHUS JACKETS	(1)	
Office of Facilities Manageme Manageme	ENSATE DRAIN LINE.																																	HARD PIPE MISC.	(12) (13)	-
		п		<u> </u>			m							<u> </u>						O							B						>			